

BURBECI, Henryk; HANZLIK, Stanislaw; SAWICKA, Izabela; SZCZEPANSKI, Leszek.

Manganese and other cellular and extracellular ultrastructural changes
in experimental uterine ectrosis. Pol. arch. med. wetnictw. 34
no. 5-6(1974-80). 1974

J. W. Klin. i Katedr Nauk Medycynowych Akademii Medycznej w
Lublinie (dziennik prof. dr. med. R. Borkowskiego) i. e.
Centralnego Laboratorium Biologiczno-Chemicznego UMK w Lublinie
dr. dr. med. T. Borkowska).

SZCZEPANSKI, Leszek

Idiopathic myocarditis in the light of our cases. Pol. arch.
med. wewnet. 35 no.3:419-423 '65.

1. Z II Kliniki Chorob Wewnetrznych Akademii Medycznej w
Lublinie (Kierownik: prof. dr. med. A.R. Tuszkiewicz).

SZCZEPANSKI, Leszek; BERBEC, Henryk; WISNIEWSKA, Maria

Effect of acetazolamide and benzohydroflumethiazide on the
urinary excretion of magnesium and calcium. Pol. tyg. lek.
20 no.25:911-912 21 Je '65.

l. Z II Kliniki Chorob Wewnętrznych AM w Lublinie (Kierownik:
prof. dr. A.T.Tuszkielwicz) i z Centralnego Laboratorium Kli-
nicznego PSK Nr. 4 w Lublinie (Kierownik: doc. dr. T. Borkowski).

SZCZEPANSKI, Ludwik

(3)

Chemical composition of fermented fruit juices (fruit wines). Ludwik Szczepański and Zofia Pomorska (Sanitarny-Bipidemiol. Sta. Wroclaw, Poland). Roczniki Państwowego Zakładu Hig. 1953, 27-52 (French summary). Analyses were made of juices and wines made from red currants, blackberries, black raspberries, cherries, apples, and rhubarb. Blackberry wines were the lowest in alc., 9.6 and 10.2% by vol. Wines of other berries contained an av. of 13.7% alc., while apple wine contained an av. of 13.2%. Sugar-free exts. amounted to 2.8% for berry wines and to 2.3% for apple wines. The decrease in sugar-free ext., ash, and nonvolatile acids during fermentation depended upon the particular fruit. The decrease in sugar-free ext. was the greatest for red currant (av. 9.6%) and the smallest for rhubarb wine (5%). The decrease in ash was the greatest for apple (av. 15.8%) and the smallest for cherry wine (5.0%). The decrease in acidity was the greatest for rhubarb (av. 22.0%) and the smallest for blackberry wines (av. 4.6%). Alina S. Szczesniak

ZWICKA-LOPACIUK, Halina; LOPACIUK, Stanislaw; SZCZEPANSKI, Maciej;
PAWELECKI, Slawomir

Embolism of the aortic bifurcation treated with thrombolytic
drugs. Pol. arch. med. wewnet. 35 no.6:911-914 '65.

1. Z Oddzialu Chorob Wewnetrznych i Pracowni Biochemii Kli-
nicznej (Kierownik: doc. dr. med. S. Pawelski) oraz z Oddzialu
Chirurgicznego Instytutu Hematologii w Warszawie (Kierownik:
doc. dr. med. A. Trojanowski [deceased]).

SZCZEPANSKI, Maciej

Electric burns. Pol. przegl. chir. 36 no.11:1357-1365 N '64.

1. z Oddzialu Chirurgicznego Instytutu Hematologii w Warszawie
(Ordynator: doc. dr. A Trojanowski [deceased]).

TROJANOWSKI, Andrzej [deceased]; SZCZEPANSKI, Maciej

The site of ulcer in gastric and duodenal ulcer and its relation
to gastric acidity. Wiad. lek. 18 no.2:113-116 16 Ja '65

l. Z Oddziału Chirurgicznego Instytutu Hematologii w Warszawie
(kierownik: doc. dr. med A. Trojanowski [deceased]).

SZCZEPANSKI, Maciej

Non-neoplastic stenosis of the sphincter of Oddi. Polski tygod.lek.
15 no.30:1163-1169 25 Jl '60.
(BILE DUCTS dis)

SZCZEPANSKI, Maciej; TROJANOWSKI, Andrzej; PAWLIKOWSKI, Jan

Surgical interventions on the sphincter of Oddi. Polski przegl.
chir. 33 no.1:49-61 '61.

1. Z Oddzialu Chirurgicznego Inst. Hematologii w Warszawie. Kierownik:
doc. dr A. Trojanowski i z Pracowni Radiologicznej Inst. Hematologii
w Warszawie Kierownik: doc. dr J. Zabokrzycki.

(BILE DUCTS surg)

POLAND

SZCZEPANSKI, Maciej, Institute of Experimental Pathology
(Zaklad Patologii Doswiadczonej) of PAN [Polska Akademia
Nauk, Polish Academy of Sciences] in Krakow (Director: Prof.
Dr. L. PASZKIEWICZ) and of the Laboratory of Experimental
Endocrinology (Pracownia Endokrynologii Doswiadczonej)
(Director: Prof. Dr. K. DUX)

"Control of Thyrotropic Activity of Hypohysis--Attempt at
Cybernetic Conception."

Warsaw, Postepy Higieny i Medycyny Doswiadczonej, Vol. 17,
No 1-2, 63, pp 127-148.

Abstract: Author reviews the four methods employed experi-
mentally to study the control of the thyrotropic activity
of the hypophysis (tracing I¹³¹, stimulation of other en-
docrine glands, stimulation of other systems of organism,
and external stimuli) and summarizes the employed experi-
ments and findings from the literature. He then sets up
a negative reversible coupling cybernetic system, which is
simultaneously a relatively perspectively isolated system,
for the thyrotrophin excretion control mechanism, describ-

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POLAND

Warsaw, Postepy Higieny i Medycyny Doswiadczonej, Vol 17,
No 1-2, 63, pp 127-148.

ing its various parts, the type and manner of feeding the information, transfer points to other parts completing the mechanism cycle, as well as feeding of experimental data on the effect of various factors. He shows schematic diagrams of the component parts, gives the formulas for the interrelationships, and describes the investigation of the mechanism of the mutual control between the hypophysis (P_{II}) and the thyroid (T), after disconnecting the mechanism of the hypothalamus system (P_I) (solving for it). Results show that exclusion of P_I leaves the interrelation in the $P_{II}-T-P_{II}$ system intact, whereas removal of nerve impulses N, makes the system even more isolated (lesser reaction to outside stimuli). The 22 references contain three in Polish, and the balance comprises Western sources.

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SZCZEPANSKI, Mieczyslaw

Device for the determination of short-lasting stability of
microwave oscillators. Przegl elektroniki 4 no. 2: 111-113
'63.

1. Przemyslowy Instytut Telekomunikacji, Warszawa.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3

SZCZEPANSKI, Roman, mgr

Determining the moisture of the pulp web. Przegl papier 21 no.4:
117 Ap '65.

1. Cellulose Works in Niedomice.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3"

SZCZEPANSKI, Ryszard

Report on employee inventions in the Geologic and Drilling Institute
in Jaslo in 1959. Wiad naft 6 no.5:108-109 My '60. (EEAI 9:10)
(Poland--Boring) (Poland--Geology)

SZCZEPANSKI, W., mgr.

Free medical services in the 17th century. Farmacja Pol 19 no.10;
222-223 25 My '63.

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"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3

SZCZEPINSKI, Wojciech (Warszawa)

Symposium on elastooptics and its applications. Mechan teor
stosow l no. 1:109-110 '63.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3"

U.S. AIR FORCE

Axially symmetric planar stress analysis of a plastic strain-hardening body. (Reference Job number 14633-24)

U.S. Department of Defense Contract No. AF33(657)-14633-24
Technical Report to the Agency of Research, Germany.

cc

L 45172-66 EWP(w)/EWP(v)/T-2/EWP(k) IJP(c) EM
ACC NR: AP6027454 SOURCE CODE: PO/0033/66/018/002/0193/0211

41
B

AUTHOR: Szczepinski, W.

ORG: Department of Mechanics Continuous Media, IBTP, Polish Academy of Sciences

24

TITLE: Optimum design of plane elements with complex shape

SOURCE: Archiwum mechaniki stosowanej, v. 18, no. 2, 1966, 193-211

TOPIC TAGS: aerodynamic design, structural steel, structural plastic, plastic strain

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ABSTRACT: Experiments indicate that the designing of dimensions in accordance with the upper estimate obtained on the basis of a suitable statically admissible stress field makes it possible to obtain shapes close to the optimum. For the materials investigated, neither the loading corresponding to the beginning of the large plastic strain nor the destructive loading exhibited any appreciable increment when the dimension was increased beyond the theoretical upper estimate. It may be assumed that this will hold true for other structural metals displaying plastic

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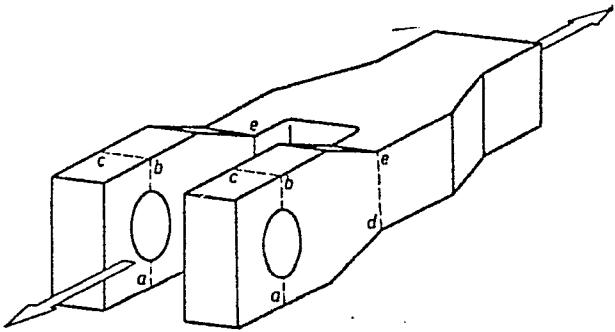
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properties. Small differences were obtained in the case of Hubert-Mises and Tresca conditions. The latter also yield the upper estimates of dimensions for the plane state of strain for both plasticity conditions. Thus, if the element considered has an intermediate thickness, so that neither a plane state of stress nor a plane state of strain occurs, it will be safe to design its dimensions in accordance with the Tresca condition. A small difference for two plasticity conditions in the plane state of stress ensures that the possible excess of the dimensions will be small. Solutions contain elements according to which parts of more complicated shapes may also be designed. An example of such a part is shown in Fig. 1. Orig. art. has: 15 figures and 44 formulas. [Based on author's abstract] [NT]

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Fig. 1. Prototype of a part of intricate shape.



SUB CODE: 13/ SUBM DATE: 21Nov65/ ORIG REF: 001/ SOV REF: 001/
OTH REF: 005/

Card 3/3 *da*

HAGER-MALECKA, Bozena; SZCZEPANSKI, Zbigniew

Microelectrophoresis of tubercle bacilli in children. Pediat.
polska 34 no.10: 1289-1293 0 '59.

1. Z Kliniki Chorob Dzieci Slaskiej A.M. w Zabrzu. Kierownik:
prof.dr.med. A. Chwalibogowski.
(TUBERCULOSIS cerebrospinal fluid)

HAGER-MALECKA, Bozena; KOBIERSKA, Alicja; SZCZEPANSKI, Zbigniew

Bromide test in tuberculous cerebrospinal meningitis. Grzlica 29
no.2:139-143 F '61.

1. Z Kliniki Chorob Dzieci Slaskiej A. M. w Zabrusz Kierownik: prof.
dr med. A. Chwalibogowski.

(TUBERCULOSIS MENINGEAL diag)
(BROMIDES metab)
(HEMATOENCEPHALIC BARRIER)

CHWALIBOGOWSKI, Artur; MALECKA, Bozena; KOBERSKA, Alicja; SZCZEPANSKI, Zbigniew

Studies on dynamic criteria of pathological processes in tuberculous cerebrospinal meningitis. Gruzlica 29 no.2:145-152 F '61.

l. Z Kliniki Chorob Dzieci Slaskiej AM w Zabrzu Kierownik: prof. dr med. A. Chwalibogowski.

(TUBERCULOSIS MENINGEAL blood)
(BLOOD PROTEINS)

HAGER- MALECKA, Bozena; SZCZEPANSKI, Zbigniew.

Contribution to immunoelectrophoretic studies in leukemic
children. Pol. tyg. lek. 19 no.258947-949 15 Je⁶⁴

1. Z Kliniki Chorob Dzieci SI. Akademii Medycznej w Zabrzu;
kierownik: prof. dr. med. A. Chwalibogowski [deceased].

SZCZEPANSKI, Zdzislaw, mgr inz.

Terminology of petroleum winning. Nafta Pol 18 no.12:344-347
D '62.

1. Instytut Naftowy, Krakow.

SZCZEPANSKI, Z.

"A technological conference concerning the problem of technical progress" p. 190
(NAFTA, Vol. 9, No. 7/8, Jul/Aug, 53, Krakow)
"Publications on petroleum" p. 191 (NAFTA, Vol. 9, No. 7/8, Jul/Aug, 53, Krakow)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Unclassified

SZCZEPANSKI, Z.

(NAFTA, Vol. 9, No. 10, Oct. 1953, Krakow, Poland)
"Technical dictionary of the petroleum industry." p. 249.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

SZCZEPANIK, Z.

SZCZEPANIK, Z. - Monographic calculation of the tensile stress and sag of conductors in horizontal spans during normal work and after breaking. p. 87. Vol. 32, no. 2, Feb. 1956.
PRZEGLAD ELEKTROTECHNICZNY. Warszawa, Poland.

SOURCE: East European Acquisitions List (EEAL) LC Vol. 5, No. 6 June 1956

SZCZEPANSKI, Z.

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Classification of drilling tools. Biuletyn.

p. 6 (Nafta) Vol. 13, No. 9, Sept. 1957, Krakow, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3

Santa Barbara, California

157
Cement for lightweight porous concretes. Alton's No.
423 and Alton's No. 200. U.S. Patent No. 2,411,164
and Patent No. 2,411,165. U.S. Patent Office
and Assignee: Alton's Portland Cement Company, Inc.,
Alton, Illinois.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3"

SEZEPANSKI, Z.; JERZIERSKI, W.

Calculations of the parameters of pulse generators at a given shape of current pulse or calculations of pulse shape at given generator parameters. p. 89

PRZEGLAD ELEKTROTECHNICZNY. (Stowarzyszenie Elektryków Polskich)
Warszawa, Poland. Vol. 35, no. 3, Mar. 1959

Monthly list of East European Accession (EEAL) LC, Vol. 4, No. 7, July 1959

Uncl.

SZCZEPANSKI, Zdzislaw, mgr., inz.

Testing of high voltage neon indicators. Energetyka Pol 15 no.11:
336 '61.

11 Politechnika Lodzka, Zakad Wysokich Napięc.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3

SZCZEPANSKI, Zdzislaw, mgr.inz.

Polish National Council on standardization. Nafta Pol 16 no.6:
167-169 '60.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3"

SZCZEPANSKI, Zdzislaw; JALOCHA, Artur; JEZIERSKI, Waclaw

The 1400 kv. - 22 kws. impulse generator designed and constructed
by the High Tension Laboratory of the Lodz Polytechnic. Elektryka
Lodz no.10:132-145 '62.

1. Katedra Elektroenergetyki, Poltechnika, Lodz.

SZCZEPANSKI, Zdzislaw

Incomplete discharges as causing aging of the dielectrics in
high-voltage electric power condensers. Rozpr elektrotech 10
no.3:383-426 '64

l. Laboratory of High Voltages, Department of Electric Power
Engineering, Technical University, Lodz.

SZCZEPANSKI, Zdzislaw, mgr inz.

Polish terms concerning mining of petroleum and natural gas
deposits. Nafta Pol 18 no.9:257-259 S '62.

1. Instytut Naftowy, Warszawa.

STANEK, Jan, inz.; GURGUL, Stanislaw, mgr; SZCZEPANSKI, Zygmunt.

Model system designed by the Solartron Work. Pomiary 8 no.11:Suppl.:
Biuletyn Osrodka Pomiarow i Automatyki 5 no.1:311-315 Jl-S '62.

1. Zaklady Azotowe, Tarnow.

STANEK, Jan, inz.; GURGUL, Stanislaw, mgr; SZCZEPANSKI, Zygmunt

Model system of the Solartron analog computer. Chemik 15
no.7/8:311-315 Jl-Ag '62.

1. Zaklady Azotowe, Tarnow.

SZCZEPINSKI, Jędrzej, mgr. inż.

A measuring device for the degree of sparking of electric
commutator engines. Przegl elektrotechn 38 no.7:311-312
Jl '62.

1. Instytut Elektrotechniki, Warszawa.

"APPROVED FOR RELEASE: 07/13/2001

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CIA-RDP86-00513R001654420006-3"

SZCZEPINSKI, W.

A certain method of determining tolerance fields. p. 275.

ARCHIWUM BUDOWY MASZN, Vol. 2, No. 3 1955

(Polska Akademia Nauk. Komitet Budowy Maszyn) Warszawa

SOURCE: EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 1 Jan. 1956

✓ 14969° Zinc-Alloy Dies. Matrice ze zinkové slitiny. (Czech.)
✓ J. Lubomski and W. Szczepinski. Strojarská výroba, v. 3, no.
5, May 1955, p. 165-187.

Service life and economics of cutting and punching zinc alloys
dies compared with those of other materials; strength, hardness,
and wear of the dies. Diagrams, photograph.

Szczepinski Wojciech

2

✓ O PEWNEJ METODZIE WYZNACZANIA PÓŁ
TOLERANCYJNYCH (ON A CERTAIN METHOD
OF DETERMINING TOLERANCE FIELDS). Wojciech Szczepinski, Arch. Budowy Maszyn (Wer-

saw), No. 3, 1955, pp. 275--284. In Polish, with
summaries in English and Russian. Application
of the Maxwell-Mohr method to the analysis of di-
mensional nets of bars formed by a series of trian-
gles adhering to one another to determine the tol-
erance field of an arbitrary point.

"APPROVED FOR RELEASE: 07/13/2001

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CIA-RDP86-00513R001654420006-3"

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TECHNOLGY

PUBLICATION: POLSKA, AUTOMAT, KONTROLA. Vol. 4, No. 7, July 1958

SZCZERPLSKI, W. For more efficient computing in the application of the statistical method to production. p. 344.

Monthly List of East European Accessions (EAAI) LC Vol. 8, No. 4
April 1959, Unclass.

SZCZEPINSKI, W.

A graphic-analytic method for the correct computation of rectangular coordinates. p. 30.

POMIARY, AUTOMATYKA, KONTROLA. (NACzelna ORGANIZACJA TECHNICzNA) Warszawa, Poland. Vol. 5, no. 1, January 1959

Monthly list of East European Accession (EEAI) LC, Vol. 8, no. 7, July 1959

Uncl.

SZCZEPINSKI, W.

TECHNOLOGY

PERIODICAL: MECHANIK, Vol. 32, no. 1, Jan. 1959.

SZCZEPINSKI, W. Simplified methods of metal stretching.p. 9.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4
April 1959, Unclass.

SZCZEPINSKI, Wojciech (Warsaw)

The equation of stress and velocity during the drawing and
stretchforming process of thin shells with double curvature.
Archiw mech 12 no.5/6: 565-581 '60.

1. Technical University, Warsaw.

SZCZEPINSKI, W.

- (12)
- Napole, 1965, Edition No. 2, pp. 15-16 - continue
21. "The First International Conference on the Protection of the Environment and Safety of Living (Scientific Congress) in Warsaw 14-17 May 1972,"
 22. "The First International Conference on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 13-18 July 1972,"
 23. "The First International Conference of Scientists on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 10-14 June 1972,"
 24. "The First International Conference of Scientists on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 21-25 June 1972,"
 25. "The First International Conference on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 20-26 July 1972,"
 26. "The Second International Conference of Scientists on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 10-14 June 1973,"
 27. "The Second International Conference of Scientists on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 10-14 June 1973,"
 28. "Meeting of International Experts on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 18-22 August 1973,"
 29. "Meeting of International Experts on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 18-22 August 1974,"
 30. "International Seminar on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 2-6 April 1975,"
 31. "Meeting of International Experts on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 1-5 November 1975,"
 32. "Meeting of International Experts on the Protection of the Environment and Safety of Living (Scientific Conference) in Warsaw 1-5 November 1976,"
 33. "The Work of the Organization, Committee of the Union of Scientific Societies of Poland in Warsaw 18-19 April 1977,"
 34. "The Work of the Organization, Committee of the Union of Scientific Societies of Poland in Warsaw 18-19 April 1978,"
 35. "The Work of the Organization, Committee of the Union of Scientific Societies of Poland in Warsaw 18-19 April 1979,"
 36. "The Work of the Organization, Committee of the Union of Scientific Societies of Poland in Warsaw 18-19 April 1980,"
- //

26350
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D287/D303

11350

AUTHOR:

Szczepiński, Wojciech (Warsaw)

TITLE:

Steady-state plastic flow processes with strain hardening experimentally determined

PERIODICAL:

Archiwum mechaniki stosowanej, v. 13, no. 3, 1961,
377-388

TEXT: In the present paper, the author gives a method of stress determination for steady-state drawing processes of thin shells. In previous articles by the author (Ref. 2: Arch. Budowy Maszyn, 2, 6 (1959), 325-343; and Ref. 3: Arch. Mech. Stos., 5/6, 12 (1960), 565-581) the same problem was studied for a rigid-plastic material without strain hardening. During the drawing process of thin shells, the material is in contact with the die at one surface only. The action of the die on the sheet metal, in the form of a non-uniform pressure p per unit area of contact, is insignificant in relation to the stresses and may be disregarded under plasticity conditions. The pressure distribution must be such that the material is in

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Standy-state plastic...

a plastic state at every point. The wall thickness being small in relation to the radii of curvature of the shell, the change of stress along the thickness may be disregarded and the mean values taken. It is not only the yield point, but also the thickness which varies during the drawing process. This quantity can also be measured at every point of the deformation region. For the discussion of the problem the author assumes an orthogonal coordinate system α, β for the shell, coinciding with the lines of principal curvatures. The yield point in shear $k = k(\alpha, \beta)$, and the shell thickness $h = h(\alpha, \beta)$, are known functions obtained experimentally. Rejecting the friction forces between the die and the material which slides on it, the author gives the equilibrium equations. The stresses are represented in function of the dimensionless stresses. The author first considers the Huber-Mises condition from which, together with the equations of equilibrium, he obtains by substitution a system of two quasi-linear partial differential equations which he solves by the method of characteristics. With auxiliary notations used by V. V. Sokolovskiy (Ref. 4; Teoriya plastichnosti (Plasticity Theory) Moscow 1950) for analyzing the plane state of stress, the author reduces the solution of the particular problem to that of a problem similar to the

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Steady-state plastic...

Cauchy boundary-value problem, the Riemann (characteristic) problem, and other boundary-value problems. The integration is performed by the method of finite differences. The author then starts with the Tresca yield condition and discusses analogous relations. He obtains a system of two quasi-linear partial differential equations which is always hyperbolic and may be solved by the method of characteristics. The solution of particular problems consists in successive solution of boundary-value problems by the finite difference method. From these equations, the author then obtains the corresponding equations for the plane state of stress. The flow velocities of the material are found from the Levy-Mises conditions of plastic flow. The author then derives the equations of characteristics, taking into consideration the friction forces between the die and the material. The Huber-Mises yield condition is used for solving the problem. The author then discusses a particularly simple solution method for solving the problem by using experimental data for the drawing process of circular tubes. The author points out that the influence on the stresses of the change in plasticity due to the strain hardening is much higher than that of the change in thickness. He states that

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the computation method used so far, in which the influence of the strain-hardening phenomenon was disregarded, involves a considerable error. The problem of circular tube drawing can be solved in a similar way with the Huber-Mises yield conditions, and also the friction forces can easily be accounted for. There are 3 figures and 4 Soviet-bloc references.

ASSOCIATION: Warsaw Technical University

SUBMITTED: January 23, 1951 *[Abstractor's note: probably misprint
for 1961]*

Card 4/4

P/033/61/013/005/002/006
D265/D302

AUTHOR: Szczepiński, Wojciech (Warsaw)
TITLE: Photoelastic method for determining stresses by means
of the isochromes only
PERIODICAL: Archiwum mechaniki stosowanej, v. 13, no. 5, 1961,
579-584

TEXT: In this paper a method is given for determining the stresses in any part of the model adjacent to the contour of the isochrome pattern by using the differential equations of equilibrium instead of the classical method of numerical integration of the Laplace equation for the sum of the stresses. The difference of principal stresses is obtained experimentally from the isochrome pattern $\sigma_1 - \sigma_2 = Km$, where m - order of the isochrome and K - model constant. Starting from the equations of equilibrium

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D265/D302

photoelastic method for ...

$$\frac{\partial \sigma_x}{\partial x} + \frac{\partial \tau}{\partial y} = 0, \quad \frac{\partial \sigma_y}{\partial y} + \frac{\partial \tau}{\partial x} = 0 \quad (1)$$

stresses σ_x , σ_y and τ are expressed in terms of $p = \frac{\sigma_1 + \sigma_2}{2}$ and the angle φ between the greater of the principal stresses and the axis x.

$$\left\{ \begin{array}{l} \sigma_x = p + \frac{1}{2} K_m \cos 2\varphi \\ \sigma_y = p - \frac{1}{2} K_m \cos 2\varphi \\ \tau = \frac{1}{2} K_m \sin 2\varphi \end{array} \right. \quad (2)$$

By substituting Eq. (2) into (1) a quasilinear system of two partial differential equations with two unknowns p and φ is obtained which

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D265/D302

Photoelastic method for ...

is further reduced to the equations of the characteristics:

$$\frac{dy}{dx} = \operatorname{tg} \left(\varphi + \frac{\pi}{4} \right), \quad K_m d\varphi + dp = \frac{1}{2} K \left(\frac{\partial m}{\partial y} dx - \frac{\partial m}{\partial x} dy \right) \quad (4.1)$$

and

$$\frac{dy}{dx} = \operatorname{tg} \left(\varphi - \frac{\pi}{4} \right), \quad K_m d\varphi - dp = \frac{1}{2} K \left(\frac{\partial m}{\partial y} dx - \frac{\partial m}{\partial x} dy \right) \quad (4.2)$$

The problem is then confined to successive solutions of boundary values and the integration is done by means of finite differences. The partial derivatives $\frac{\partial m}{\partial x}$ and $\frac{\partial m}{\partial y}$ are determined by graphical differentiations. The method is illustrated by finding the stress distribution at a point of strong stress concentration in a plate having two symmetric notches and subjected to tension. There are 4 figures

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and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: S. P. Christodoulides, A Photoelastic Method of Two Dimensional Separation of Stresses Along a Line of Symmetry by Using the Isochromatic Fringes Only, Brit. J. Appl. Phys. 5, 7 (1956) 190-194. ✓

ASSOCIATION: The Polytechnic Institute of Warsaw

SUBMITTED: March 27, 1961

Card 4/4

SZCZEPINSKI, W.

On the effect of plastic deformation on the yield condition,
Bul Ac Pol tech 11 no. 12:743-748 '63.

1. Department of Mechanics of Continuous Media, Institute of Fundamental Technical Problems, Polish Academy of Sciences, Warsaw. Presented by W. Olszak.

SZCZEPINSKI, Wojciech

On the effect of plastic deformation on yield condition.
Archiw mech 15 no.2:275-296 '63.

1. Department of Mechanics of Continuous Media, Institute of
Basic Technical Problems. Polish Academy of Sciences, Warsaw.

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ANNA KAWAKI, Major, (Marusawa)

Method of characterization for determining biological differences
by means of isoenzymes only. Article and part II no. 16126-32
104.

SCANDINAVIA

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of Vehicle Technical Problems of the Soviet Academy of Sciences,
Moscow. Director: V. V. Kostylev.

1-24878-65 EMA(h)/ERP(k)/ERT(j)/ERT(g)/ERT(d)/ERP(w)/ERP(v) PC-4/Feb
AFFTC/APCC EM

ACCESSION NR: AP5002535

P/0033/6:016/006/1207/1214

AUTHOR: Szczepinski, W. (Warsaw)

TITLE: Plastic strain of a spherical shell under dynamic loading by internal pressure 26 26 26

SOURCE: Archiwum mechaniki stosowanej, v. 16, no. 6, 1964, 1207-1214

TOPIC TAGS: plastic deformation, spherical shell, dynamic loading, internal pressure

ABSTRACT: The author analyzes a large plastic deformation of a spherical vessel, caused by suddenly applied internal pressure. Unlike an earlier study by W. E. Baker (J. Appl. Mech. v. 27, 1950, 134), dealing with the plastic deformation of a thin-walled spherical shell produced by an internal explosion, but with strain not exceeding 0.4, the results given in the present article concern larger strain, with account taken of strain-hardening, of the influence of the velocity on the plastic limits, and of viscosity and strain hardening acting simultaneously. Both thin-wall and thick-wall spherical shells are considered, including

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ACCESSION NR: AP5002535

a thick-wall spherical shell dynamically loaded by internal pressure. In the latter case a solution is obtained without taking into consideration the strain hardening and the viscosity of the material. Orig. art. has: 4 figures and 15 formulas.

ASSOCIATION: Department of Mechanics of Continuous Media, IBTP, Polish Academy

SUBMITTED: 2 Mar 64

ENCL: 00

SUB CODE: ME, AS

TYPE: 50

Form 2/2

KARTASZYNSKI, Boleslaw, doc.. inz.; RATAJCZYK, Henryk, mgr inz.;
SZEPIORKOWSKA, Maria, mgr inz.

Semiautomatic synchronization method of closing-in
turbogenerators for parallel work. Energetyka Pol 18
no.12; Suppl; Biul inst energetyki 6 no.11/12; 58-60 D '64.

1. Department of Automation and Safety Devices of the
Institute of Power Engineering, Warsaw.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3

~~Proprietary Information, General Signal, Inc.~~

Expenditure of 150.4 accts per month in 100 Longwell of the
General file. Mission goes to ac. 2; C11-8 at 169.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001654420006-3"

BRZOZOWSKI, Zdzislaw; JACKIEWICZ, Alodia; MUZALEWSKI, Feliks; STEFANSKI,
Tadeusz; SZCZEPKOWSKA, Teresa

The obtaining of 3-sulfanilamido-6-methoxypyridazine. Rocznik chemii
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34 no. 1:299-301 '60.

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SZCZEPIKOWSKI, Antoni

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1. Of the Institute of Physiological Chemistry (Head--Prof. B. Skarzynski, M.D.) of Krakow Medical Academy. 2. Thiobacillus thioparus and Thiobacillus thiooxydans.

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ZEBRO, Tadeusz; STACHURA, Jerzy; PROCHNICKA, Barbara; SZCZEKPOWSKI, Tadeusz

Studies on chemical protection from ionizing radiation. Pt. 3.
Acta med. Pol. 6 no.2:155-169 '65.

1. Department of Pathological Anatomy, Medical Academy, Cracow
(Director: Prof. Dr. J. Kowalczykowa), and Department of Physio-
logical Chemistry, Medical Academy, Cracow (Director: Prof. Dr.
Włodzimierz Ostrowski).

ZEBRO, Tadeusz; JGRASZ, Elzbieta; SZCZEPIKOWSKI, Tadeusz; STACHURA, Jerzy;
NIEZABITOWSKI, Aleksander

Studies on chemical protection from ionizing radiation. Pt. 4.
Acta med. Pol. 6 no.2:171-177 '65.

1. Department of Pathological Anatomy, Medical Academy, Cracow
(Director: Prof. Dr. J. Kowalczykowa); Department of Physiological
Chemistry, Medical Academy, Cracow (Director: Assoc. Prof.
Dr. W. Ostrowski), and The Radiological Clinic, Medical Academy,
Cracow (Director: Prof. Dr. St. Januszkiewicz).

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thiamine, 7.66 and 11.02; riboflavin, 74.0 and 18.89; pantothenic acid, 0.819 and 0.202; biotin, 2.87 and 3.76; manganous sulphate, 0.001 and 0.002; and pteroylglutamic acid, 0.001 and 0.002.

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Prof. dr B. Skarzynski
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Krakowie Kierownik profesor dr. Boleslaw Skarzynski.

(HEMOGLOBIN,

heme, eff. of nitric oxide. (Pol))

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SZCZEPOKOWSKI, TADEUSZ

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1956, 3, 261-269 (Inst. Physiol. Chem., Med. Acad., Kraków,
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l. (Z I Kliniki Chorob Wewnetrznych A. M. w Krakowie; kierownik: prof. dr L. Tochowicz i z Aakladu Chemii Fizjologicznej A. M. w Krakowie; kierownik: prof. dr B. Skarzynski). Krakow, ul. Kopernika 17 I Klin. Chorob Wewn. A. M.

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same)

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1. From the Obstetrical and Gynecological Clinic of the Medical
Academy in Cracow. Director: Professor S. Schwarz M.D. and The
Department of Physiological Chemistry of the Medical Academy in
Cracow. Director: Professor B. Skarzynski M.D.

(KERNICTERUS metab) (CARBON MONOXIDE metab)

SKARZYNSKI, B.; SZCZERKOWSKI, T.W.; WEBER, Miroslawa

Investigations on the oxidation of thiosulphate in the animal
organism. Acta biochim, polon. 7 no.2/3:105-113 '60.

1. Department of Physiological Chemistry, Medical Academy, Cracow.
Kierownik: prof. dr B.Skarzynski
(THIOSULFATES metab)

SZCZEKPCKOWSKI, T. W.

KIRSCHNER, S.
SURNAME (in caps); Given Name

Country: Poland

Academic Degrees: [Not given]
Second Clinic of Internal Diseases, School of Medicine (II Klinika
Chorob Wewnętrznych Akademii Medycznej Kraków) Krakow; Director:
Prof. T. TEPEKA and the Department of Physiological Chemistry (Zakład Chemii
Klinicznej Fizjologicznej Akademii Medycznej Kraków); Director: Prof. B. SZARYNSKI, dr
med
Source: Warsaw, Przegląd Lekarski, No 5, 1961, p. 221
Data: "Paroxysmal Nocturnal Haemoglobinuria. Mechanism of Action of Thrombin in
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Co-authors:

SZCZEKPCKOWSKI, T.

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WEBER, Miroslawa; SZCZEPOKOWSKI, T. W.; SKARZYNSKI, B.

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Kierownik: Prof. Dr B. Skarzynski.

(SULFATES metab) (THIOSULFATES metab)

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Kierownik Zakladu: Prof. Dr Boleslaw Skarzynski

(ENZYMES chem)

SZCZEPKOWSKI, T.W.

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1. Zaklad Chemii Fizjologicznej Akademii Medycznej w Krakowie Kie-
rownik Zakladu: Prof. Dr Boleslaw Skarzynski
(ENZYMES chem)
(THIOSULFATES chem)

KIRCHMAYER, Stanislaw; SZCZEKPOWSKI, Tadeusz W.

Spontaneous lipemia. Polski tygod.lek. 16 no.1:21-24 2 Ja '61.

1. Z II Kliniki Chorob Wewnetrznych A.M. w Krakowie; kierownik:
prof.dr nauk med. Tadeusz Tempka i z Zakladu Chemii Fizjologicznej
A.M. w Krakowie; kierownik: prof. dr nauk med. Boleslaw Skarsynski.
(LIPIDS blood)

KIRCHMAYER, Stanislaw; SZCZEPKOWSKI, Tadeusz W.

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med. T. Tempka i z Zakladu Chemii Fizologicznej AM w Krakowie Kierownik:
prof. dr nauk med. B. Skarzynski.

(HEMOGLOBINURIA PAROXYSMAL etiol)
(HEMOLYSIS) (THROMBIN)

KOJ, A.; SZCZEKPOWSKI, T.

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(HEMOLOGINURIA PAROXYSMAL) (ERYTHROCYTES)
(GLUTATHIONE) (NEURAMINIC ACIDS)

KIRCHMAYER, Stanislaw; KOJ, Aleksander; MOSTOWSKI, Jerzy; SZCZEPKOWSKI,
Tadeusz W.

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nauk med. T.Tempka Z Zakladu Chemii Fizjologicznej AM w Krakowie.
Kierownik: prof. dr nauk med. B. Skarzynski Z Woj. Stacji Krwiodawstwa /
w Krakowie Kierownik: dr med. J. Mostowski.
(HEMOGLOBINURIA PAROXYSMAL blood) (HEMOLYSIS)

SZCZEKPOWSKI, Tadeusz; ZEBRO, Tadeusz; STACHURA, Jerzy

Studies on chemical protection against ionizing radiation.
I. Studies on the toxicity of sodium cysteinethiosulphonate
for C57 black mice. Acta med. Pol. 4 no.3:305-312 '63.

1. Department of Physiological Chemistry, Medical Academy,
Cracow, Director: Prof. Dr. B. Skarzynski. Department of
Pathological Anatomy, Medical Academy, Cracow, Director: Prof.
Dr. J. Kowalczykowa.

(RADIATION-PROTECTIVE AGENTS)
(SULPHYDRYL COMPOUNDS)
(RADIATION INJURY, EXPERIMENTAL)
(SULFONIC ACIDS) (CYSTEINE)

ACCESSION NR: AP4041176

P/0055/64/005/002/0235/0245

AUTHOR: Szczepkowski, Tadeusz; Zebro, Tadeusz; Stachura, Jerzy

TITLE: Studies of chemical protection from ionizing radiation. II.
Protective action of sodium cysteinethiosulfate (CTS)

SOURCE: Acta medica polona, v. 5, no. 2, 1964, 235-245

TOPIC TAGS: radiation chemistry, ionizing radiation, chemical protection, sodium cysteinethiosulfate

ABSTRACT: The mechanism of protective action of sulfur compounds (CTS) was studied through experiments with radioactive S³⁵. White mice were irradiated using a 2-mm Al filter, and white mice with radioactive S³⁵. Yields of the C⁵⁷ black strain irradiation from 8.2 to 17.5 minutes ranged from 40 to 62 r/min, time of survival of mice which received injected CTS doses was 32 cm. and 10 mg per 10 g body weight 850, 750, and 520 r and target distance was 32 cm. Radiation doses from 40 to 62 r/min, time of survival of mice which received injected CTS doses were 2.5, 5, and 10 mg per 10 g body weight 850, 750, and 520 r and target distance was 32 cm. the control group was 3.3 days. It was concluded that CTS administered intraperitoneally was 5.9 days while that of CTS administered orally was 3.3 days.

Card 1/2

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Coupling reaction of bilirubin with diazobenzenesulfonic acid.
Rocznik chemii 37 no. 6: 629-634 '63.

I. Department of Physiological Chemistry, School of Medicine,
Krakow.

ZODROW, Karol; STEFANIAK, Ojcumila; CHELKOWSKI, Jerzy;
SZCZEPSKA, Katarzyna

Influence of Ca-pantothenate and biotin on the growth and
biosynthesis of corrinoids by Propionibacteria. Acta microbiol.
pol. 12 no.4:263-266 '63.

1. From the Department of Agricultural Microbiology, College
of Agriculture, Poznan.
(PANTOTHENIC ACID) (BIOTIN) (CULTURE MEDIA)
(PROPIONIBACTERIUM)

SZCZEPSKI, JAN BOGUSLAW.

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38 p. (warsaw. Panstwowe Muzeum Zoologiczne. Acta Ornithologica, t. 4, nr. 6)
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Vol. 3, no. 6

SO: Monthly List of East European Accessions./Library of Congress, June 1954, Uncl.